

# Coastal Processes and management



## Aim:

Investigate coastal processes at work in Robin Hood's Bay and how these are being managed.

## Learning Objectives:

- Understand how different coastal processes are shaping this coastline
- Consider advantages and disadvantages of different coastal defences
- Develop coastal fieldwork skills (such as measuring beach dimensions)

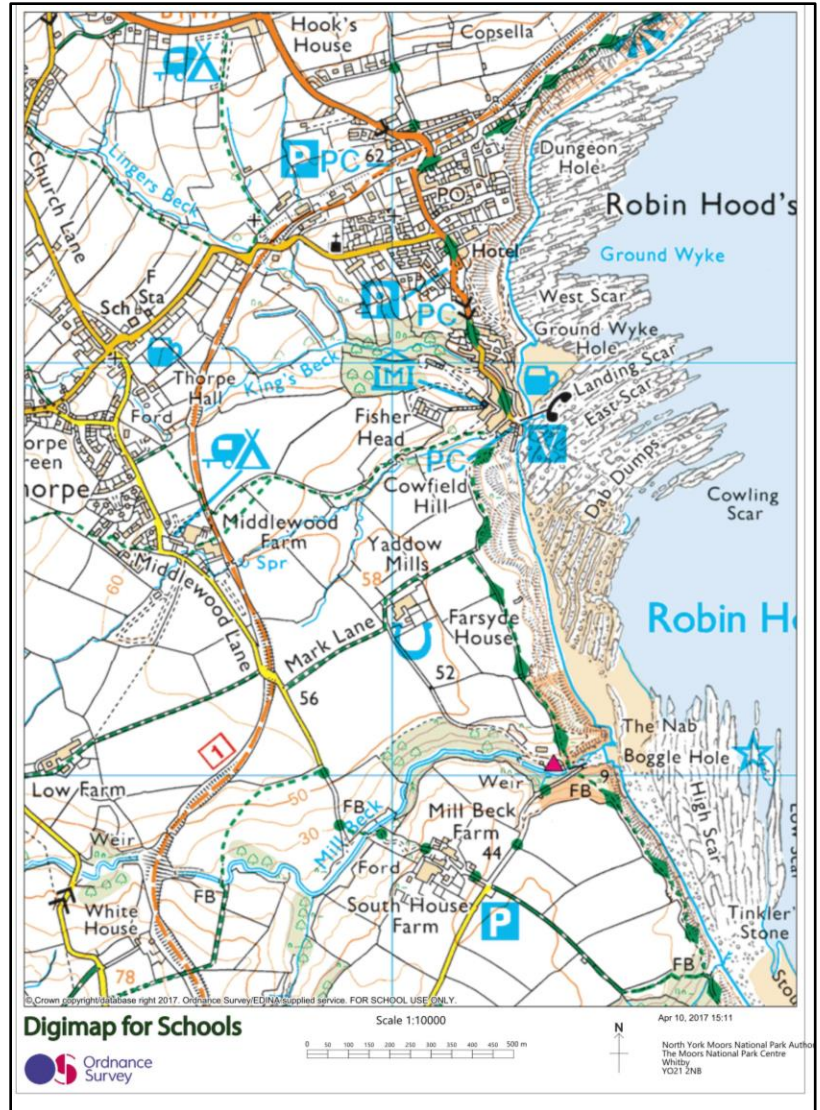
## Key concepts:

Longshore Drift	Erosion	Abrasion
Hydraulic action	Corrosion	Attrition
Wave cut platform	Sediment	Till/Boulder-clay
Cost-benefit analysis	Seawall	Hard engineering
Rip-rap/Rock armour	Beach	Soft engineering
Mass movement	Slumping	Over-topping
Constructive waves	Clinometer	Beach profile
Destructive waves	Ranging pole	Pebble roundness

## Risks & managing risk (risk assessment)

**Drowning:** Stay away from the sea, work on a falling tide and work in groups. If it is stormy we will avoid the beach.

**Cliff collapse:** Stay away from cliffs.



## Potential hypotheses we will test along the coast:

Expensive defences will be situated in front of the *most/least* valuable land.

Beaches in front of seawalls (compared to beaches elsewhere) will be *larger/smaller*.

Beach size will *increase/decrease* from north to south in Robin Hood's Bay.

Beach sediment size will increase/decrease from north to south in Robin Hood's Bay.

## Notes: